|  | <br>Clair |  |
|--|-----------|--|
|  |           |  |

Application/Control No.

Applicant(s)/Patent under Reexamination

Art Unit

| <b>√</b> | Rejected |
|----------|----------|
| -        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| 1 | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|              |                                  | L      | Ĺ           |              |              | -            | ╛        |  |          |  |  |  |
|--------------|----------------------------------|--------|-------------|--------------|--------------|--------------|----------|--|----------|--|--|--|
|              |                                  |        |             |              |              |              |          |  |          |  |  |  |
| Cli          | aim                              | Date   |             |              |              |              |          |  |          |  |  |  |
| Final        | Original                         |        |             |              |              |              |          |  |          |  |  |  |
|              |                                  |        | T           | 1            | 7            | $\top$       | $\top$   |  | $\top$   | _  |  |  |
|              | 1                                |        |             | Τ            | $\top$       | 1            | $\top$   | 1  | 1        | <del>                                     </del> |  |  |
|              | 3                                |        | Τ           | Τ            | 1            | 7            | $\top$   |  | 7        |  |  |  |
|              | 4<br>5                           |        |             |              |              | T            | Τ        | 7  |          | 1  |  |  |
|              | 5                                |        |             |              |              |              |          |  |          |  |  |  |
| <u> </u>     | 6<br>7<br>8                      |        | L           |              |              | L            |          | $\perp$  |          |  |  |  |
|              | 7                                |        | L           | _            | _            | _            |          | $\perp$  | J        |  |  |  |
| <u> </u>     | 8                                |        | $\perp$     | ↓_           | 4            | $\perp$      | 4_       | 1_   | 1        | _  |  |  |
| <u> </u>     | 9<br>(10)                        |        | <u> </u>    | ╀            | -            | 4            | -        | -  | $\bot$   | <u> </u>   |  |  |
| <del> </del> | 11                               |        | -           | ╀            | +            | +-           | 4        | $\bot$   | ╁        | 4_   |  |  |
|              | 12                               | _      | ┞           | ╄            | +-           | +            | +-       |  | 4        | -  |  |  |
|              | 12                               |        | ├           | ╁            | ╁            | +-           | ┿        | ┿  | ╬        | 4—   |  |  |
|              | 14                               |        | ╁           | ╁            | +            | +-           | ╁        | +-   | ╁        | +  |  |  |
| <del>-</del> | 100                              |        | $\vdash$    | +            | ╅            | ╁            | +-       |  | ╁        | ┼  |  |  |
|              | 12<br>13<br>14<br>15<br>16<br>17 |        | -           | ╁            | +-           | ╁            | +        | +  | +-       | +-   |  |  |
| · ·          | 17                               | _      | $\vdash$    | t            | ╁            | +            | +        | ╁  | +        | +  |  |  |
|              |                                  |        | <b>†</b> ** | T            | †            | 十            | +        | †  | +-       | $\dagger$  |  |  |
| ~            | 19                               |        | 1           | T            | †            | ┰            | 1        | T  | +        |  |  |  |
|              | 19<br>20<br>21<br>22             |        | Г           | Τ            |              | 1            | 1        | _  | $\top$   |  |  |  |
|              | 41.                              |        |             | Ţ            |              |              | Т        | $\top$   | 1        | П  |  |  |
|              | 22                               |        |             |              |              |              |          |  |          |  |  |  |
|              | 23<br>24<br>25                   |        | _           | ┖            | <u> </u>     | _            | _        |  | _        |  |  |  |
|              | 24                               |        |             | L            | -            | 4_           | 1        | ↓_   | <u> </u> | $\perp$  |  |  |
|              | 25                               |        | _           | ├-           | ┼            |              | ╀        | -  | 4_       | Ш  |  |  |
|              | 26<br>27                         |        | -           | ┼            | ┼-           | ╁            | +        | +-   | ╂—       | $\vdash$   |  |  |
| -            | 28                               |        |             | -            | ╁            | ╂            | +-       | +  |          | -  |  |  |
|              | 29                               | _      |             | ١,           | +-           | ╁╾           | +        | ╁╌   |          | $\vdash$   |  |  |
|              | 30                               | _      | _           | -            | ┿            | ╁            | ╁╌       | ╁  | $\vdash$ | +  |  |  |
|              | 31                               |        |             | 1            | 1            | +            | +        | <del>                                     </del> | $\vdash$ | $\vdash \vdash$                                  |  |  |
|              | 32<br>33                         |        |             | 1            | T            | T            | 1        | T  | 1-       |  |  |  |
|              | 33                               |        |             | L            |              |              | $\perp$  |  | Π        |  |  |  |
|              | 34<br>35                         |        |             | 匚            |              | Γ            |          |  |          |  |  |  |
|              | 35                               |        |             | <u> </u>     | L            |              | 1        |  |          |  |  |  |
|              | 36                               |        |             | _            | <u> </u>     | <del> </del> | ↓        | 1  | ļ        | Ш  |  |  |
|              | 37                               |        |             | <del> </del> |              | ├-           | -        | ├-   | <u> </u> | Щ  |  |  |
|              | 38                               | -      |             | -            | ⊬            | ├-           | -        | -  | ₩        | $\vdash$   |  |  |
|              | 39<br>40                         | -      | _           | -            | ┼            | ├-           | -        | ₩  | -        | $\vdash\vdash$                                   |  |  |
|              | 41                               | -      |             |              | $\vdash$     | -            | 1        | -  | ├—       | $\vdash$   |  |  |
|              | 42                               | $\neg$ | _           | -            | $\vdash$     | $\vdash$     | †        | $\vdash$   | -        | $\vdash$   |  |  |
|              | 43                               | $\neg$ |             | $\vdash$     | 1            | 1            |          |  | $\vdash$ | $\vdash$   |  |  |
|              | 44                               |        |             | _            |              | $\vdash$     | T        |  | $\vdash$ |  |  |  |
|              | 45                               |        | _           |              | $\Box$       |              | 1        |  | $\vdash$ | П  |  |  |
|              | 46                               |        |             |              |              |              |          |  |          |  |  |  |
|              | 47                               |        | _           |              |              |              |          |  |          |  |  |  |
|              | 48                               | _ļ     |             |              | $oxed{\Box}$ |              |          |  |          |  |  |  |
|              | 49                               | _      | _           |              | _            | _            | <u> </u> | <u> </u>   |          |  |  |  |
| 1            | 511                              | - 1    |             |              | 1            |              |          |  |          |  |  |  |

| CI           | aim      | Date      |          |  |              |              |              |  |          |          |  |  |  |
|--------------|----------|-----------|----------|--|--------------|--------------|--------------|--|----------|----------|--|--|--|
| Final        | Original |           |          |  |              |              |              |  |          |          |  |  |  |
|              | 51       | +         | †        | 1  | +            | T            | +            | +                                      | +        | +        |  |  |  |
|              | 51<br>52 |           |          |  | 1            |              | 7            |  | ┪        |          |  |  |  |
|              | 53       |           |          |  | $\top$       |              |              |  |          | $\top$   |  |  |  |
|              | 54       |           | $\perp$  |  | $\perp$      |              |              | I                                      |          |          |  |  |  |
|              | 55       | _         | Ц_       |  | ᆚ            | ┸            |              | L                                      |          |          |  |  |  |
|              | 56       | 1         | 1        | 4-   | 4_           | $\bot$       |              | ┸                                      |          | $\perp$  |  |  |  |
|              | 57       | - -       | +-       | - -  | 4            | 4            | 4            | 4                                      | _        | 4-       |  |  |  |
|              | 58       | +-        | +        |  | +            | +            | - -          | +                                      | - -      | $\perp$  |  |  |  |
|              | 59<br>60 | +-        | +        | +  | 4            | ╀            |              | +                                      | +        | ╁        |  |  |  |
| <del> </del> | 61       | ╁         | +        |  | ╁            | ┼~           | +-           | +                                      | +        | +        |  |  |  |
|              | 61<br>62 | +         | ╁        | +-   | +            | +            | +-           | +                                      | +-       | +        |  |  |  |
|              | 63       | $\dagger$ | +        | +  | $\dagger$    | +            | +            | +                                      | +        | +        |  |  |  |
|              | 64       | $\top$    | +        | $\top$   | $\top$       | $\top$       | 十            | +                                      | +        | +-       |  |  |  |
|              | 65       |           | 1        | 1  | $\top$       | T            | $\top$       | T                                      | 1        | $\top$   |  |  |  |
|              | 66       |           |          |  |              |              |              | 1                                      | $\top$   |          |  |  |  |
|              | 67<br>68 |           |          |  | L            |              |              |  |          |          |  |  |  |
|              | 68       | 1         | ↓_       | Ŀ  | 1            | _            | 1_           |  |          |          |  |  |  |
|              | 69       | ╀         | 1        | -  | ↓            | $\perp$      | <u> </u>     | 1                                      | 1        | ↓.       |  |  |  |
| ļ            | 70<br>71 | 1         | ┼-       | -  | ╄.           | ╄            | 1            |  | -        | $\perp$  |  |  |  |
| <u> </u>     | 71       | ╆         | ╁        | +  | -            | <del> </del> | +            | ┿-                                     | +-       | -        |  |  |  |
| ├─           | 72       | ╁         | ╬        | ╁  | -            | ╁            | +            | +                                      | ╁        | ╢        |  |  |  |
|              | 73<br>74 | ┼-        | ┼        | ╁  | ╁            | ╁            | +            | ╁                                      | ╁        | 1-       |  |  |  |
|              | 75       | †         | 1        | +  | †-           | $\vdash$     | †-           | ╁                                      | ╁~       | +-       |  |  |  |
|              | 76       |           | 1-       | $\top$   | ┰            | T            | ╈            | 1                                      | +        | 1-       |  |  |  |
|              | 77       |           |          |  |              |              | Т            |  | 1        |          |  |  |  |
|              | 78<br>79 |           |          |  |              |              |              |  |          | $\Box$   |  |  |  |
|              | 79       | 1_        | _        | ļ.   |              | <u> </u>     |              |  |          |          |  |  |  |
|              | 80       | <u> </u>  | ┦—       | <u> </u>   | _            | _            | <u> </u>     | ــــــــــــــــــــــــــــــــــــــ | <u> </u> | <u> </u> |  |  |  |
|              | 81<br>82 | ╀         | ┼        | ┼  | <del> </del> | ┼            | ╄            | ┼                                      | ╁        | ـ        |  |  |  |
|              | 83       | ┼—        | ╌        | ╀  | -            | ┼-           | -            | -                                      | ╁        | ├-       |  |  |  |
| -            | 84       | $\vdash$  | +-       | $\vdash$   | ┼-           | $\vdash$     | ┼            | $\vdash$                               | +        | 1        |  |  |  |
|              | 84<br>85 | $\vdash$  |          | $\vdash$   | †            | 1            | +-           | +                                      | +-       | +        |  |  |  |
|              | 86       |           | Τ        | <del>                                     </del> | T            | 1            | $\vdash$     |  | 1        | $\vdash$ |  |  |  |
|              | 87       |           |          |  |              |              | <u> </u>     |  | $\top$   | T        |  |  |  |
|              | 88       |           |          |  |              |              |              |  |          |          |  |  |  |
|              | 89       | <u> </u>  |          |  |              |              |              |  |          |          |  |  |  |
|              | 90       | ļ         |          | <u> </u>   | _            | _            |              | _                                      | 1_       | <u> </u> |  |  |  |
|              | 91       | _         | <u> </u> | <del> </del>                                     | <u> </u>     | <u> </u>     | <u> </u>     |  | <u> </u> | ļ        |  |  |  |
|              | 92<br>93 | <u> </u>  |          |  | -            | ⊢            |              | <u> </u>                               | ļ        | <u> </u> |  |  |  |
|              | 94       | -         | -        | ├  | <del> </del> | -            | <u> </u>     | -                                      | -        | <u> </u> |  |  |  |
|              | 95       |           | -        | <del> </del>                                     | -            | $\vdash$     | <del> </del> | -                                      | $\vdash$ |          |  |  |  |
| <del></del>  | 96       | _         | -        | -  | -            | $\vdash$     | -            | $\vdash$                               | -        | -        |  |  |  |
|              | 97       | _         | $\vdash$ | $\vdash$   | _            |              |              | -                                      | $\vdash$ |          |  |  |  |
|              | 98       |           |          | _  | Г            |              |              |  | $\vdash$ |          |  |  |  |
|              | 99       |           |          |  |              |              |              |  |          |          |  |  |  |
|              | 100      |           |          |  |              |              |              |  |          |          |  |  |  |

|          |                   | <u></u>      |          |              |              |          |              |              |          |          |  |  |
|----------|-------------------|--------------|----------|--------------|--------------|----------|--------------|--------------|----------|----------|--|--|
| С        | laim              | Date         |          |              |              |          |              |              |          |          |  |  |
| Final    | Original          |              |          |              |              |          |              |              |          |          |  |  |
|          | 101               | 1            | T        | 7            | $\top$       | +        |              | +            | +        |          |  |  |
|          | 102<br>103        |              |          |              |              | $\top$   |              | $\top$       |          |          |  |  |
|          | 103               |              |          | Τ            |              |          |              | 7            | T        |          |  |  |
|          | 104               |              |          |              |              | $\perp$  |              |              |          |          |  |  |
|          | 105               | ļ            | L        | ╀            | $\perp$      |          | _            | $\perp$      |          |          |  |  |
|          | 106               | <del> </del> | ┞-       | 1            | 4            | ┸        |              | $\perp$      | $\perp$  | Ш        |  |  |
| ļ        | 107               | <u> </u>     | <u> </u> | <u> </u>     | +            | 4        | _            | -            | - -      | -        |  |  |
|          | 108               | <b>├</b>     | -        | ╁-           | - -          | 4        | _            | +            |          | Н.,      |  |  |
| <u> </u> | 109<br>110        | ┢╌           | -        | +            | ╬            | +        | - -          | +            | -        | $\vdash$ |  |  |
| <u> </u> | 111               | -            | -        | ╁            | +            | +-       | - -          | +            | -        | ╀╌┤      |  |  |
| -        | 112               | -            | -        | +            |              | +        |              | +            | +-       | +        |  |  |
|          | 113               |              | ┢        | ╁            | ╁            | ╁        | +-           |              | +        | ┼┤       |  |  |
|          | 113<br>114        | -            | H        | ╁            | +            | ╁        | +            | +-           | +        | ╁─┤      |  |  |
|          | 115               |              | _        | $^{\dagger}$ | 1-           | +        | ╁            | $\top$       | +-       | 1-       |  |  |
|          | 116               |              | Γ        | 1            | 1            | 1        | 7            | +            | +        | $\Box$   |  |  |
|          | 117               |              |          |              |              |          | _            | T            |          | $\Box$   |  |  |
|          | 118               |              |          | L            |              |          |              |              |          |          |  |  |
|          | 119               |              |          |              |              |          |              |              |          |          |  |  |
|          | 119<br>120<br>121 |              | _        | ┞            | 4_           | $\perp$  | _            | $\perp$      | _        |          |  |  |
|          | 121               |              | _        | <u> </u>     | ↓_           | ↓_       | 1            | 4            | <u> </u> | Ш        |  |  |
| -        | 122<br>123        |              | _        | ├-           | ╄            | 1        | -            | 4-           | $\bot$   | Ш        |  |  |
|          | 123               |              |          | -            | ╀            | ╁        | +            | +            | ┿        | Н        |  |  |
|          | 124               |              | _        | ╁            | ╁            | ╁        | +-           | +            | ┿        | $\vdash$ |  |  |
|          | 125<br>126        |              |          |              | ╁            | ╁        | ┿            | ╁            | ╁        | $\vdash$ |  |  |
|          | 127               |              | _        | +-           | +            | +-       | +            | +-           | +        | Н        |  |  |
|          | 127<br>128        |              |          | $\vdash$     | ╁            | ╁        | +            | 1            | ╁        |          |  |  |
|          | 129               |              | _        | T            | $\top$       | $\top$   | 1-           | $^{\dagger}$ | †-       | Н        |  |  |
|          | 130<br>131        |              |          |              | 1            |          | 1            | ┢            | 1        |          |  |  |
|          | 131               |              |          |              |              |          | Т            | 1            | $\top$   |          |  |  |
|          | 132               |              |          |              |              |          | $oxed{\Box}$ |              |          |          |  |  |
|          | 133<br>134        |              |          | _            | $\perp$      | <u> </u> | _            | _            | <u> </u> |          |  |  |
|          | 134               | -            |          | <u> </u>     | <del> </del> | 1        | ↓_           | -            | -        |          |  |  |
|          | 135               | -            |          | L            | ┼            | ⊢        | -            | -            | -        | $\dashv$ |  |  |
|          | 136<br>137        |              |          | _            | $\vdash$     | ├-       | -            | ┪—           | -        |          |  |  |
|          | 138               |              |          | -            | -            | ╁        | +            | ├—           | $\vdash$ | -        |  |  |
|          | 139               | $\dashv$     | _        | -            |              | ╁        | +            | ┼—           | $\vdash$ | -        |  |  |
|          | 140               | -            |          |              | $\vdash$     | -        | ╁╌           | -            |          |          |  |  |
|          | 141               |              |          |              | $\vdash$     |          |              | 1            | $\Box$   | -        |  |  |
|          | 142               |              |          |              |              |          | $\top$       |              | -        | $\neg$   |  |  |
|          | 143               |              | _        |              |              |          |              |              |          |          |  |  |
|          | 144               | $\Box$       |          |              |              |          |              |              |          |          |  |  |
|          | 145               |              |          |              |              |          |              |              |          |          |  |  |
|          | 146               | _            |          | _            | _            | _        |              |              | $\Box$   |          |  |  |
|          | 147               | _ .          | _        |              | <u> </u>     | <u> </u> | _            | _            | $\sqcup$ | _        |  |  |
|          | 148<br>149        | -            |          |              | <u> </u>     | <u> </u> | <del> </del> | <u> </u>     | -        | _        |  |  |
|          | 150               |              | -        |              |              | -        | -            |              |          | $\dashv$ |  |  |
|          | 100               |              | !        |              | i            | 1        | 1            | [            | 1        | - 1      |  |  |